BRUHAT BANGALORE MAHANAGARA PALIKE

PRE-MEASUREMENT

RA 1ST AND FINAL BILL

Name of work: Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3726 Zonal PublicWorks - POW Works

Name of Agency: Sri Nataraj. T, No/ 02, 1st Main, Amarajyothi Layout, R T Nagar, Bangalore - 32.

Work order No: BBMP/EE/BTP/WO/118/2020-21 Dated: 25.09.2020.

Measurements Recarded on : 09-10-2020

Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Unit
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	For Drain Desilting								
	Chamundeshwari Temple Main Road	2	30.00			0.45	0.45	12.15	
		2	10.50			0.45	0.45	4.25	
		2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	31.50			0.45	0.45	12.76	
	2nd B Cross	2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	15.20			0.45	0.45	6.16	
	6th Main Road	2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	20.50			0.45	0.45	8.30	
	3rd C Cross	2	30.00			0.45	0.45	12.15	
		2	30.00			0.45	0.45	12.15	
		2	3.00			0.45	0.45	1.22	
	Berm Cutting								
	Chamundeshwari Temple Main Road	2	30.00			1.20	0.20	14.40	
		2	10.50			1.00	0.25	5.25	
		2	30.00			1.00	0.30	18.00	
		2	30.00			0.95	0.25	14.25	
		2	30.00			1.20	0.20	14.40	
		2	31.50			0.90	0.25	14.18	
	2nd B Cross	2	30.00			0.80	0.20	9.60	
		2	30.00			1.00	0.25	15.00	
		2	15.20			0.95	0.20	5.78	
	6th Main Road	2	30.00			1.00	0.25	15.00	
		2	30.00			0.85	0.20	10.20	
		2	30.00			0.95	0.15	8.55	
		2	30.00			0.85	0.30	15.30	
		2	20.50			1.00	0.15	6.15	
	3rd C Cross	2	30.00			0.90	0.25	13.50	
		2	30.00			0.90	0.20	10.80	
		2	3.00			1.20	0.20	1.44	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore

3-10-21

Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
			Total Qty =						370.27	
			Qty Limited to =						369.50	

Assistant Engineer
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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :	14-10-2020								
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)									Sqm
	For Drain									
	Chamundeshwari Temple Main Road		2	30.00				1.35	81.00	
			2	10.50				1.35	28.35	
			2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	31.50				1.35	85.05	
	2nd B Cross		2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	15.20				1.35	41.04	
	6th Main Road		2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	20.50				1.35	55.35	
	3rd C Cross		2	30.00				1.35	81.00	
			2	30.00				1.35	81.00	
			2	3.00				1.35	8.10	
	For Covering Slab									
	Chamundeshwari Temple Main Road		2	30.00				0.90	54.00	
			2	10.50				0.90	18.90	
			2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	31.50				0.90	56.70	
	2nd B Cross		2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	15.20				0.90	27.36	
	6th Main Road		2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	30.00				0.90	54.00	
			2	20.50				0.90	36.90	1869.75
								Total Qty =	1869.75	
								Qty Limited to =	1869.21	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :	17-10-2020								
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.									Sqm
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83		114.75	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05		32.03	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78		173.25	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95		178.50	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05		181.50	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53		205.54	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25		105.00	
						Total Qty =			990.56	
						Qty Limited to =			988.75	
						Qty upto 125% =			681.16	
						Qty Above 125% =			307.59	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :		21-11-2020							
9	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.									Cum
	Chamundeshwari Temple Main Road									
	BWSSB Road Cutting									
	Ch: 0.00 to 30.00 Mtrs		1	30.00			0.90	0.30	8.10	
	Ch: 30.00 to 40.50 Mtrs		1	10.50			0.90	0.30	2.84	
	Ch: 0.00 to 30.00 Mtrs		1	30.00			0.90	0.30	8.10	
	Ch: 30.00 to 60.00 Mtrs		1	30.00			0.90	0.30	8.10	
	Ch: 60.00 to 90.00 Mtrs		1	30.00			0.90	0.30	8.10	
	Ch: 90.00 to 121.50 Mtrs		1	31.50			0.90	0.30	8.51	
	Ch: 0.00 to 20.00 Mtrs		1	20.00			0.90	0.30	5.40	
	Road Surface									
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83	0.15	17.21	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05	0.15	4.80	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78	0.15	25.99	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95	0.15	26.78	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05	0.15	27.23	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53	0.15	30.83	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25	0.15	15.75	
							Total Qty =		**197.72**	
							Qty Limited to =		**195.56**	
							Qty upto 125% =		**170.29**	
							Qty Above 125% =		**25.27**	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :	04-12-2020								
10	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.									Sqm
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83		114.75	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05		32.03	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78		173.25	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95		178.50	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05		181.50	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53		205.54	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25		105.00	
						Total Qty =			**990.56**	
						Qty Limited to =			**988.75**	
						Qty upto 125% =			**681.16**	
						Qty Above 125% =			**307.59**	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :	04-12-2020								
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen**									Cum
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83	0.050	5.74	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05	0.050	1.60	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78	0.050	8.66	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95	0.050	8.93	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05	0.050	9.08	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53	0.050	10.28	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25	0.050	5.25	
						Total Qty =			**49.53**	
						Qty Limited to =			**49.44**	
						Qty upto 125% =			**34.06**	
						Qty Above 125% =			**15.38**	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :	05-12-2020								
12	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.									Sqm
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83		114.75	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05		32.03	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78		173.25	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95		178.50	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05		181.50	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53		205.54	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25		105.00	
								Total Qty =	990.56	
								Qty Limited to =	988.75	

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Sl. No	Description		No.	L	B1	B2	Av.B	D	Qty	Unit
	Measurements Recarded on :		05-12-2020							
E1	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC Carriage of mixed material to work site spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications.									Cum
	Chamundeshwari Temple Main Road									
	Ch: 0.00 to 30.00 Mtrs		1	30.00	4.15	3.50	3.83	0.15	17.21	
	Ch: 30.00 to 40.50 Mtrs		1	10.50	3.50	2.60	3.05	0.15	4.80	
	Ch: 0.00 to 30.00 Mtrs		1	30.00	5.75	5.80	5.78	0.15	25.99	
	Ch: 30.00 to 60.00 Mtrs		1	30.00	5.80	6.10	5.95	0.15	26.78	
	Ch: 60.00 to 90.00 Mtrs		1	30.00	6.10	6.00	6.05	0.15	27.23	
	Ch: 90.00 to 121.50 Mtrs		1	31.50	6.00	7.05	6.53	0.15	30.83	
	Ch: 0.00 to 20.00 Mtrs		1	20.00	5.50	5.00	5.25	0.15	15.75	
						Total Qty =			148.58	
						Qty Limited to =			148.31	

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